

METHOD AND APPARATUS FOR TRANSPARENT ENCRYPTION

ABSTRACT OF THE DISCLOSURE

A method and apparatus are provided for protecting sensitive information within server or other computing environments. Numerous electronic requests addressed to a server system are received over network couplings and evaluated. The evaluation scans for sensitive information including credit card information and private user information. Upon detecting sensitive data, cryptographic operations are applied to the sensitive data. When the sensitive data is being transferred to the server system, the cryptographic operations encrypt the sensitive data prior to transfer among components of the server system. When sensitive data is being transferred from the server system, the cryptographic operations decrypt the sensitive data prior to transfer among the network couplings. The cryptographic operations also include hash, and keyed hash operations.